KUNDENDIENST

ITT Graetz

SERVICE

MANUAL

ST 543

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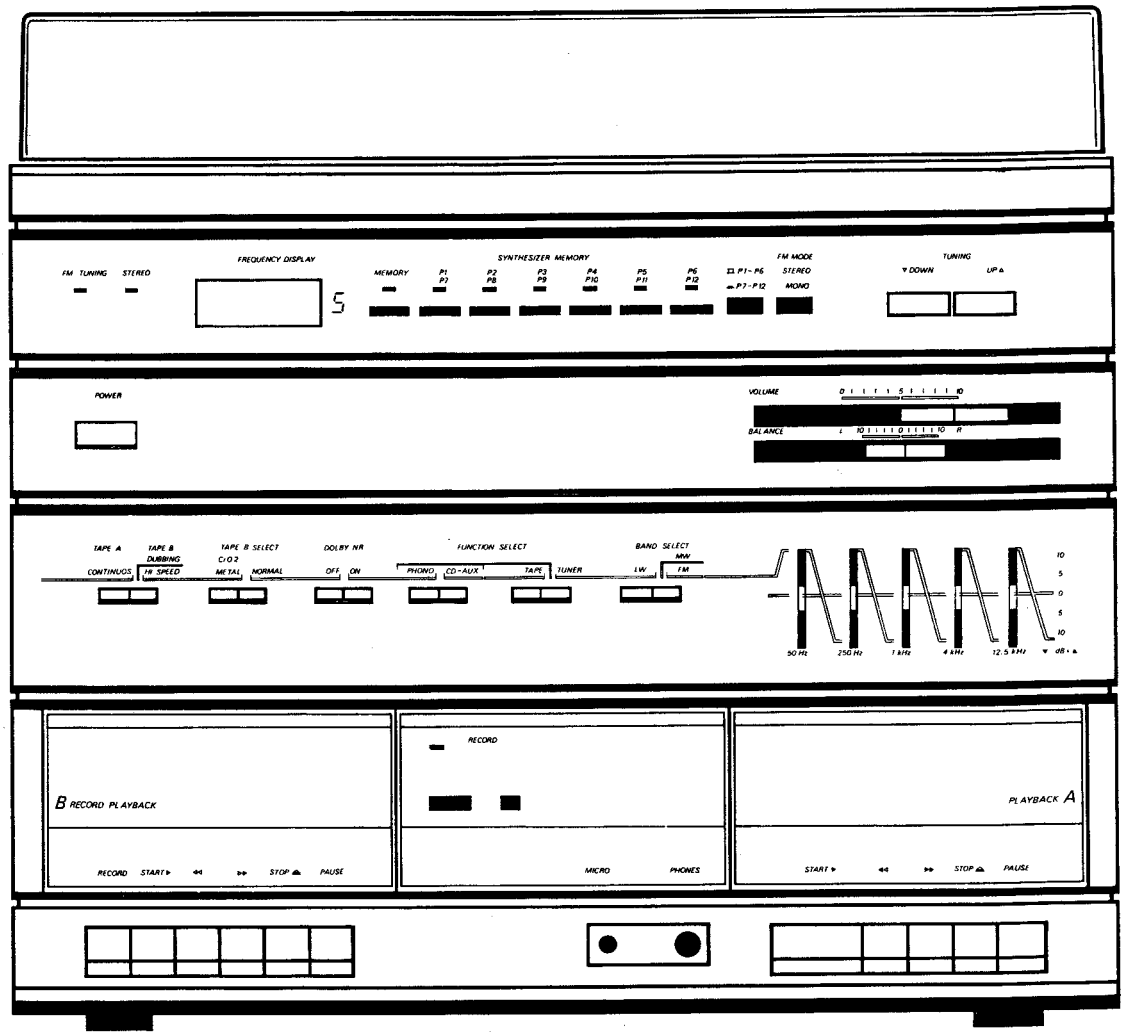
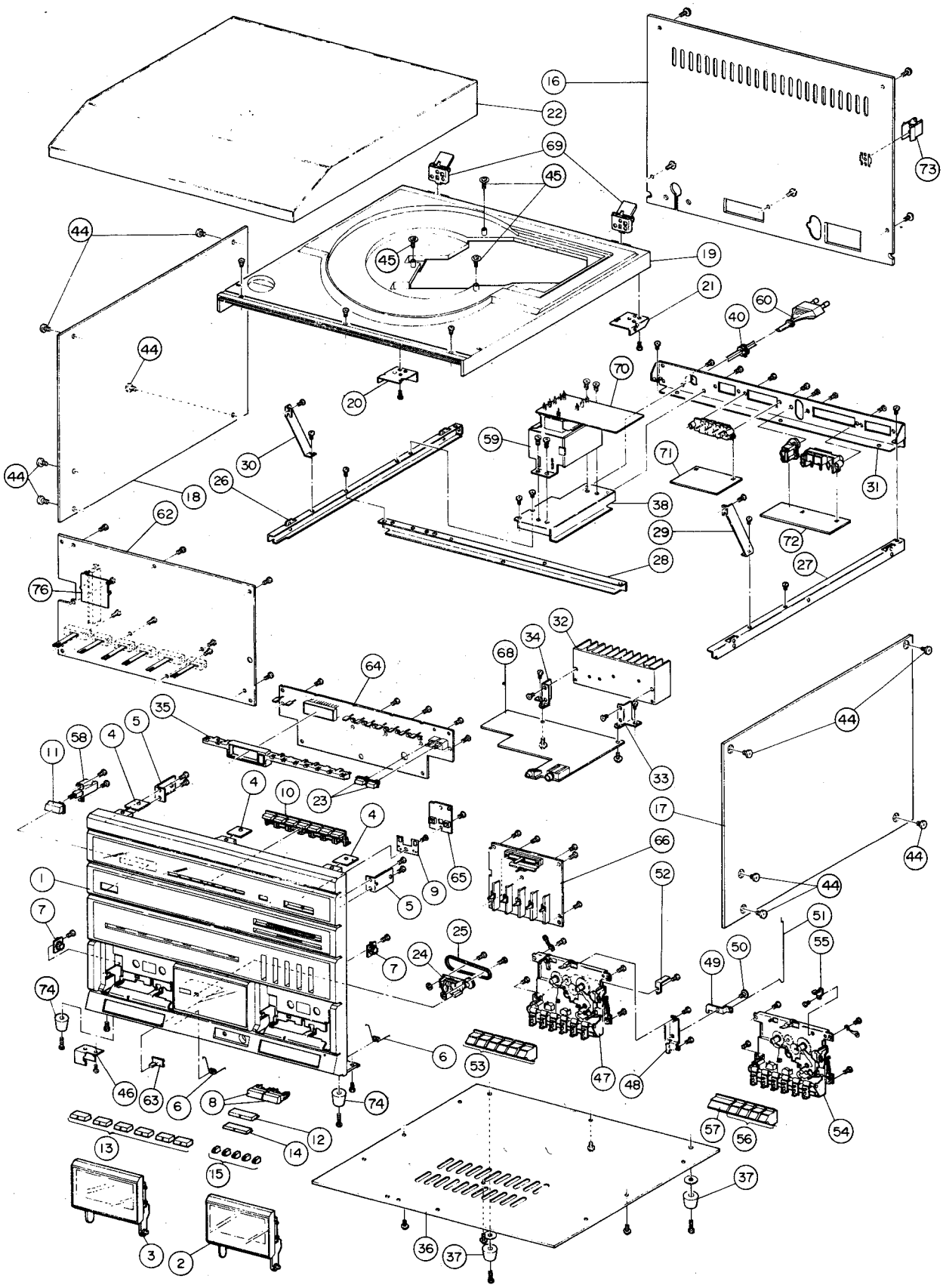


ST 543 : 5562 14 60

Bei Reparaturen gültige Sicherheitsvorschriften beachten!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Positions-Nr. Reference-No. Numéro de position	Bestell-Nr. Part-No. Numéro de commande
1	6134 48 33
2	6136 10 90
3	6136 10 91
6	7358 22 50
7	7522 02 14
8	6328 08 47
10	6328 08 48
11	6318 41 25
12	6328 08 53
13	6328 08 49
14	6328 08 50
15	6328 08 44
16	6123 09 25
17	6123 09 28
18	6123 09 29
19	6134 48 11
22	6114 07 27
23	6328 08 52
24	6467 16 86
25	7618 42 50
35	8681 34 55
36	6123 09 30
37	6273 40 16
40	8681 09 85
44	7858 01 73
45	7858 01 72
47	5863 11 62
48	8318 49 71
49	8318 49 72
50	7858 01 74
51	8318 51 01
52	8318 51 02
53	6318 41 69
54	5863 11 63
55	4188 04 69
56	6318 41 69
57	6318 41 70
58	4112 93 23
59	4511 33 39
60	4131 40 45
62	6913 23 77
63	6913 23 78
64	6913 23 79
65	6913 23 80
66	6913 23 81
68	6913 23 82
69	6352 10 18
70	6913 23 83
71	6913 29 25
72	6913 23 84
73	8681 35 72
74	6273 40 17

Positions-Nr. Reference-No. Numéro de position	Bestell-Nr. Part-No. Numéro de commande
	Phono 5863 11 64
1	6257 42 01
3	6257 43 01
4	6257 43 02
6	6257 43 03
8	6257 43 04
9	6257 43 05
11	6257 43 06
12	6257 43 07
13	6257 43 08
14	6257 43 09
15	6257 43 10
16	6257 43 11
19	6257 43 12
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23	6257 43 14
24	6257 43 15
25	6257 43 16
26	6257 43 17
27	6257 43 18
28	6257 43 19
29	6257 43 20
31	7858 01 75
32	7858 43 21
33	6257 43 22
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35	6257 43 24
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40	6257 43 26
43	6257 43 27
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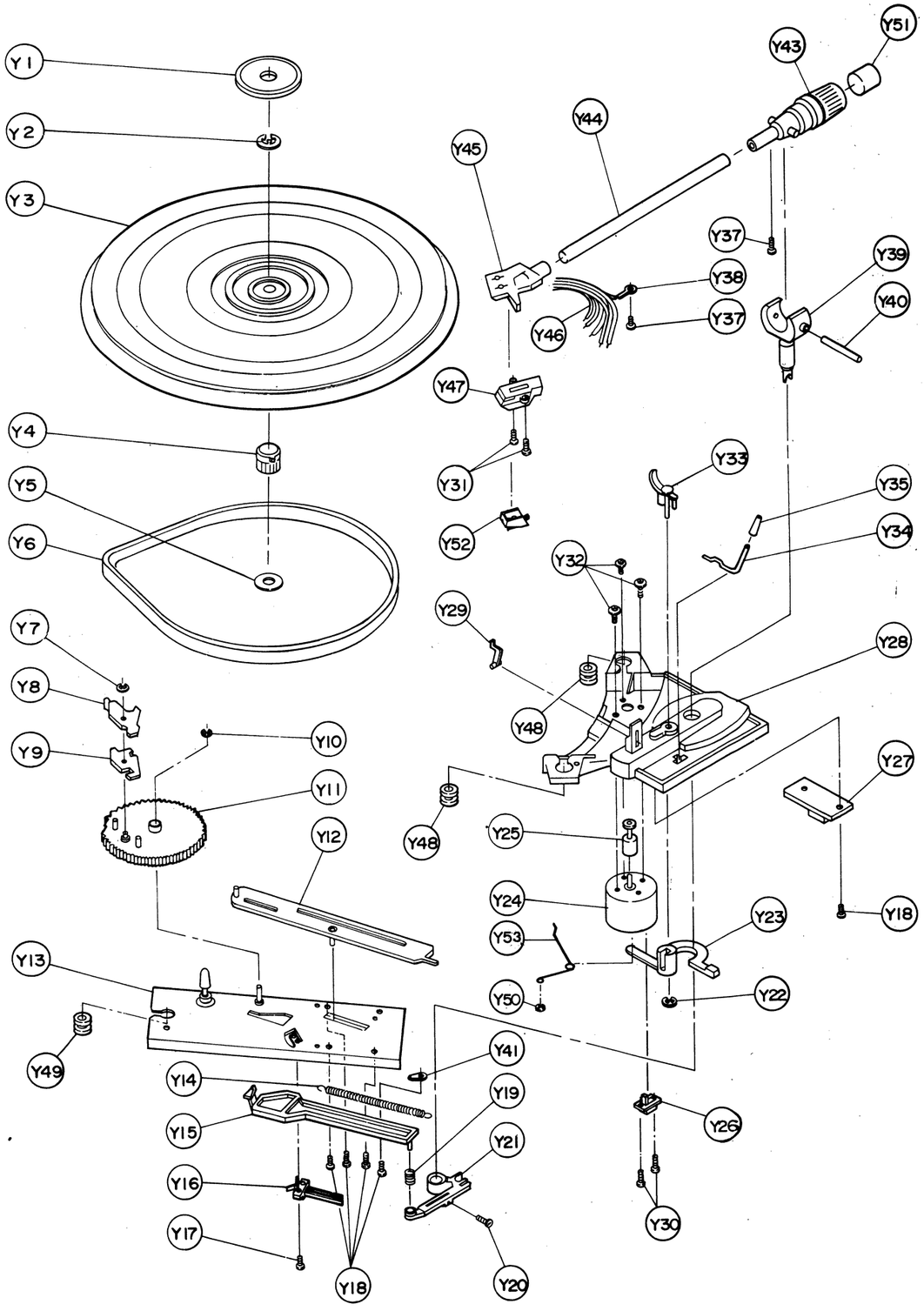
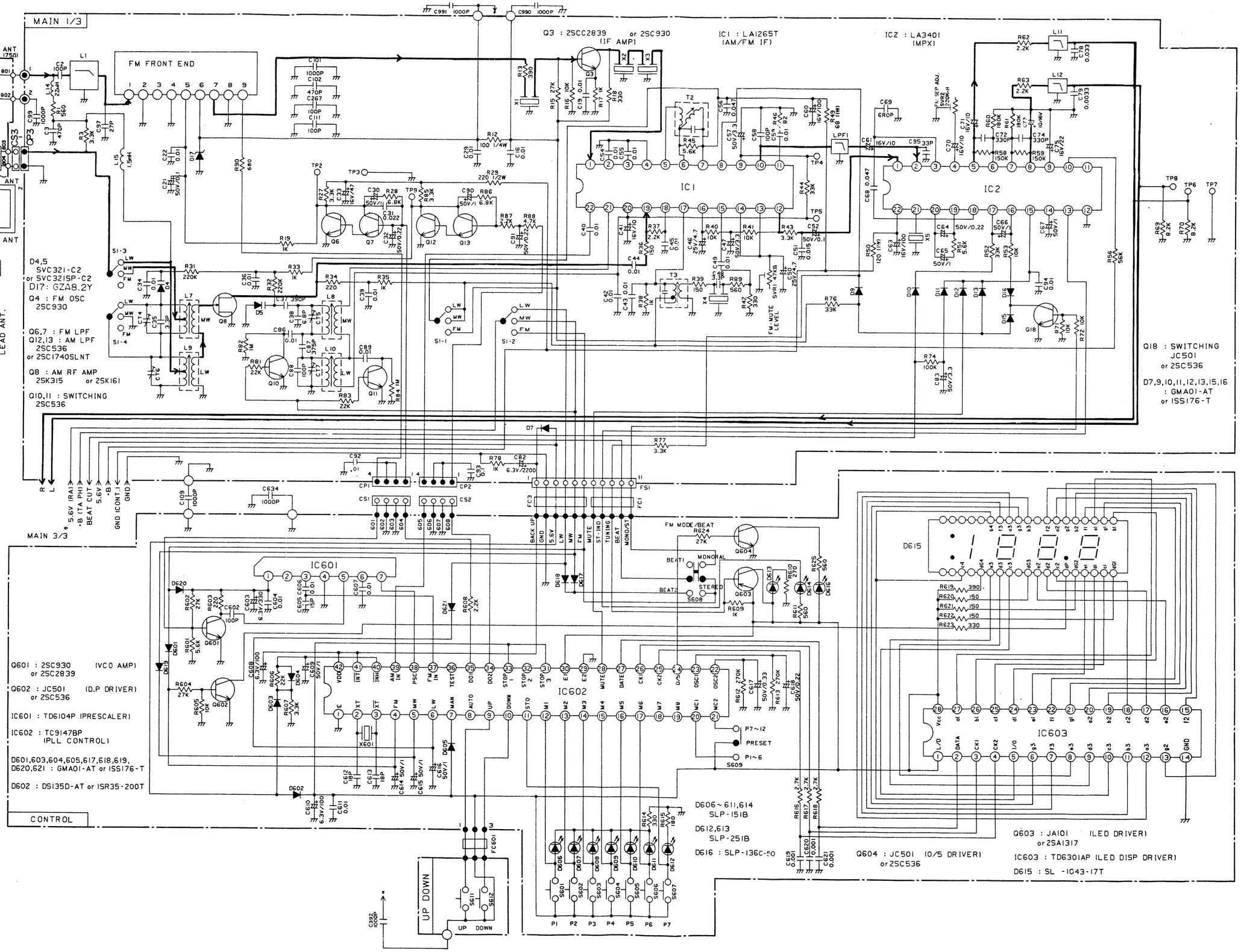
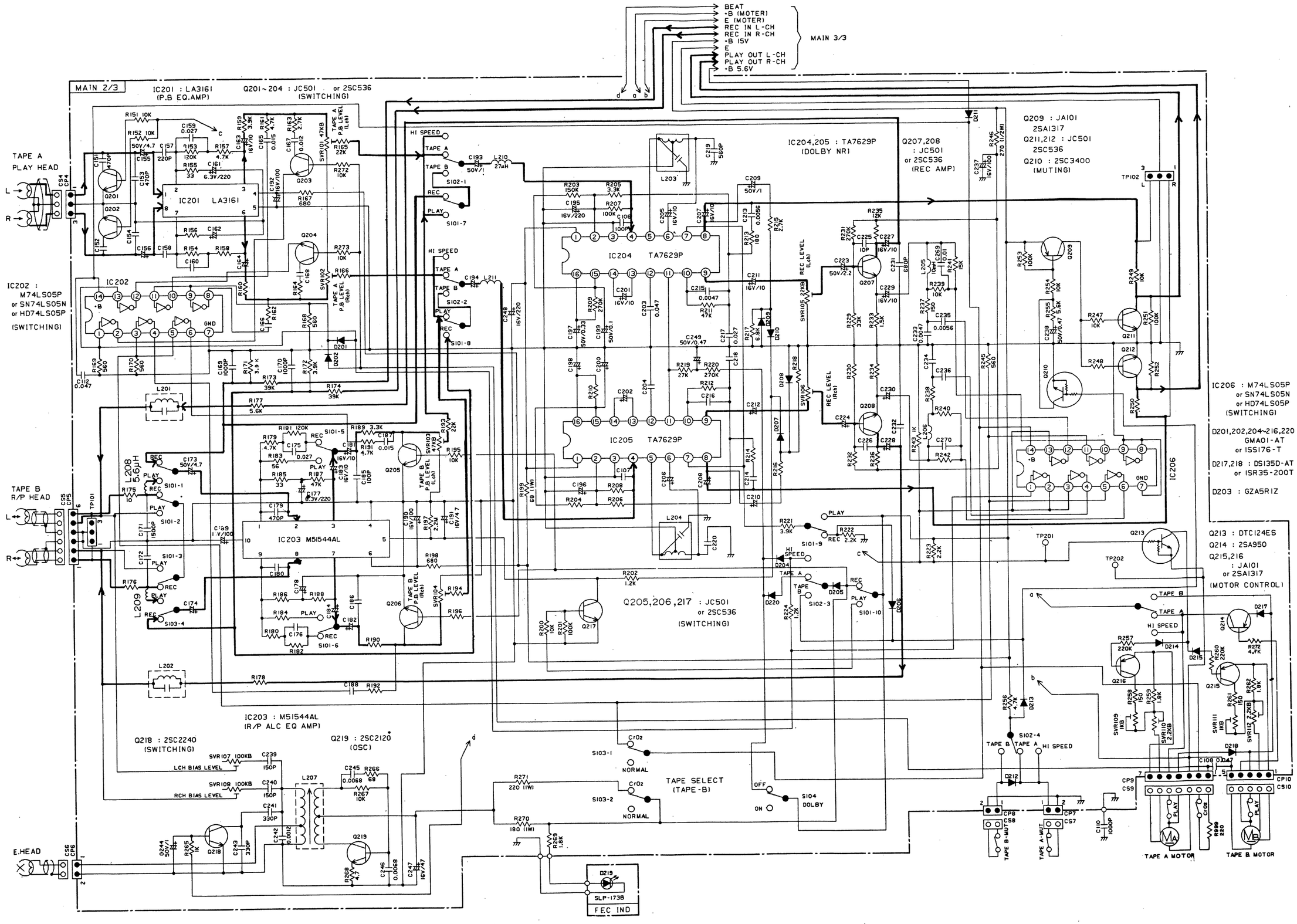
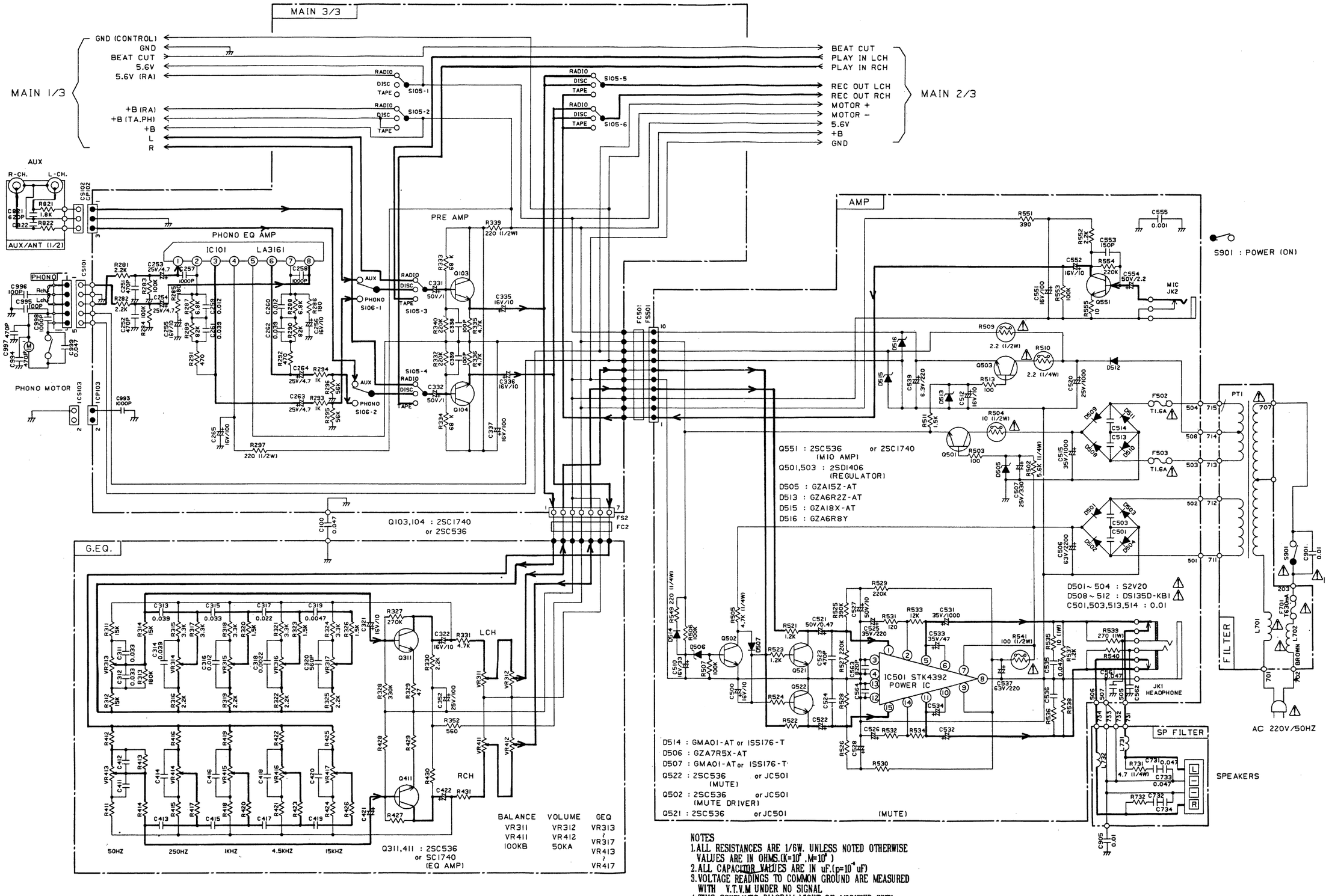
53	6257 34 34



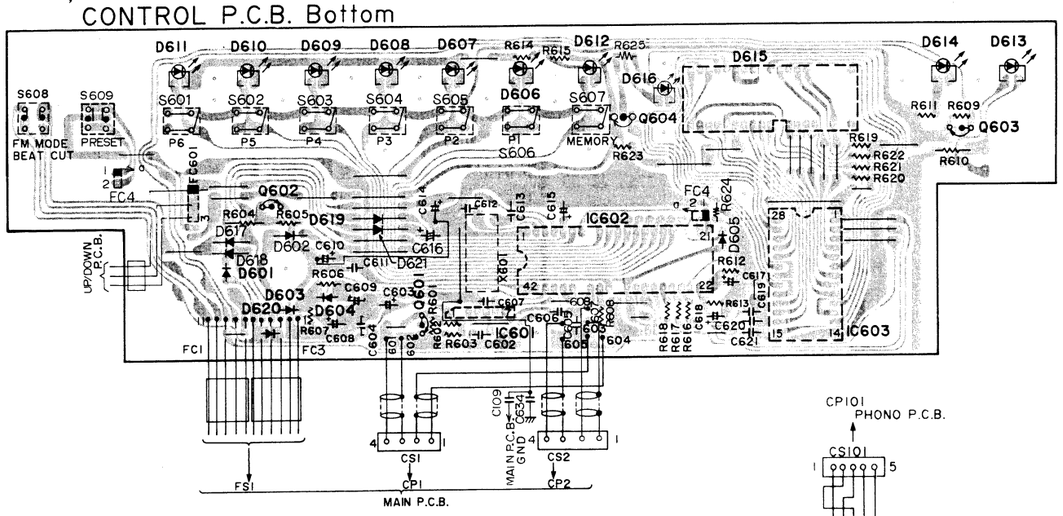

MAIN 1/3
FM FRONT END
Q3 : 2SC2839 or 2SC930 (IF AMP)
IC1 : LA1265T (AM/FM IF)
IC2 : LA3401 (MPX)
IC1
IC2
LOOP ANT
LEAD ANT.
AM ANT
AUX/ ANT11/21
D4,5 SVC321-C2 or SVC321SP-C2
D17: GZA8.2Y
Q4 : FM OSC 2SC930
Q6,7 : FM LPF
Q12,13 : AM LPF 2SC536 or 2SC1740SLNT
Q8 : AM RF AMP 2SK315 or 2SK161
Q10,11 : SWITCHING 2SC536
Q18 : SWITCHING JC501 or 2SC536
D7,9,10,11,12,13,15,16 : GMA01-AT or ISS176-T
MAIN 3/3
CONTROL
IC601
IC602
IC603
Q601 : 2SC930 (VCO AMP) or 2SC2839
Q602 : JC501 (D.P DRIVER) or 2SC536
IC601 : TD6104P (PRESCALER)
IC602 : TC9147BP (PLL CONTROL)
D601,603,604,605,617,618,619, D620,621 : GMA01-AT or ISS176-T
D602 : DSI35D-AT or ISR35-200T
D606~611,614 SLP-151B
D612,613 SLP-251B
D616 : SLP-136C-50
Q603 : JA101 (LED DRIVER) or 2SA1317
Q604 : JC501 (D/S DRIVER) or 2SC536
IC603 : TD6301AP (LED DISP DRIVER)
D615 : SL -1043-17T
UP DOWN
FM MODE/BEAT
BEAT1
BEAT2
MONORAL
STEREO
P1 P2 P3 P4 P5 P6 P7
P7~12
PRESET
P1~6


MAIN 2/3
IC201 : LA3161
(P.B EQ.AMP)
Q201~204 : JC501 or 2SC536
(SWITCHING)
BEAT
+B (MOTER)
E (MOTER)
REC IN L-CH
REC IN R-CH
+B 15V
E
PLAY OUT L-CH
PLAY OUT R-CH
+B 5.6V
MAIN 3/3
TAPE A
PLAY HEAD
TAPE B
R/P HEAD
E.HEAD
IC201 LA3161
IC202
M74LS05P
or SN74LS05N
or HD74LS05P
(SWITCHING)
IC203 M51544AL
IC203 : M51544AL
(R/P ALC EQ AMP)
IC204,205 : TA7629P
(DOLBY NR)
IC204 TA7629P
IC205 TA7629P
Q207,208
: JC501
or 2SC536
(REC AMP)
Q209 : JA101
2SA1317
Q211,212 : JC501
2SC536
Q210 : 2SC3400
(MUTING)
IC206 : M74LS05P
or SN74LS05N
or HD74LS05P
(SWITCHING)
IC206
D201,202,204~216,220
GMA01-AT
or ISS176-T
D217,218 : DSI35D-AT
or ISR35-200T
D203 : GZA5R1Z
Q213 : DTC124ES
Q214 : 2SA950
Q215,216
: JA101
or 2SA1317
(MOTOR CONTROL)
Q205,206,217 : JC501
or 2SC536
(SWITCHING)
Q218 : 2SC2240
(SWITCHING)
Q219 : 2SC2120
(OSC)
TAPE SELECT
(TAPE-B)
S104
DOLBY
OFF
ON
NORMAL
HI SPEED
TAPE A
TAPE B
REC
PLAY
TAPE A MOTOR
TAPE B MOTOR
FEC IND
SLP-173B
LCH BIAS LEVEL
RCH BIAS LEVEL
REC LEVEL
TAPE A P.B LEVEL (Lch)
TAPE B P.B LEVEL (Lch)
TAPE A P.B LEVEL (Rch)
TAPE B P.B LEVEL (Rch)

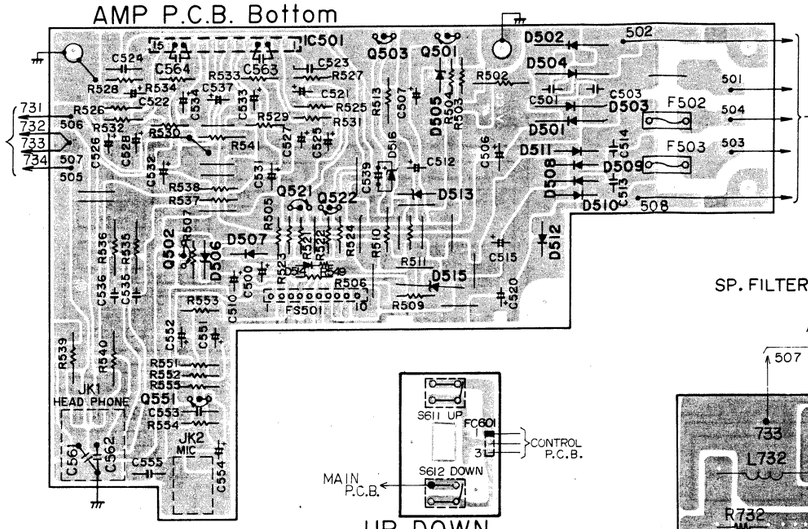


NOTES
1. ALL RESISTANCES ARE 1/6W. UNLESS NOTED OTHERWISE VALUES ARE IN OHMS. (K=10^3, M=10^6)
2. ALL CAPACITOR VALUES ARE IN uF. (p=10^{-6} uF)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M UNDER NO SIGNAL
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.

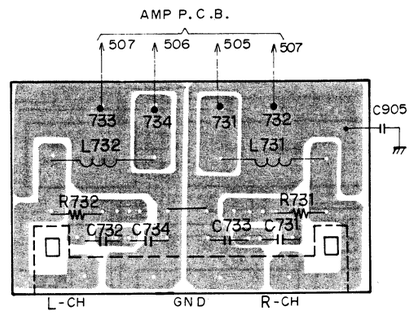
CONTROL P.C.B. Bottom



AMP P.C.B. Bottom

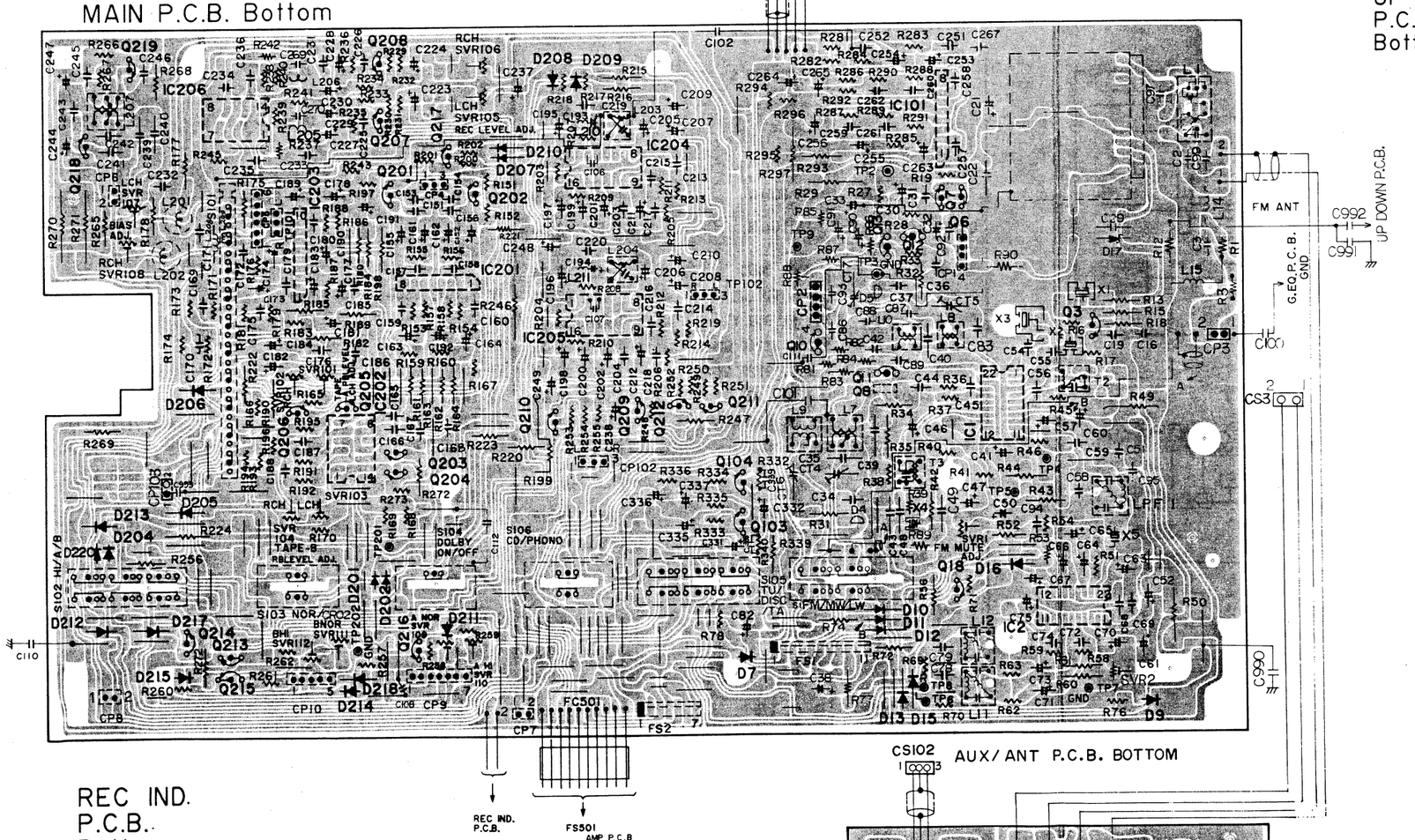


SP. FILTER P.C.B. BOTTOM

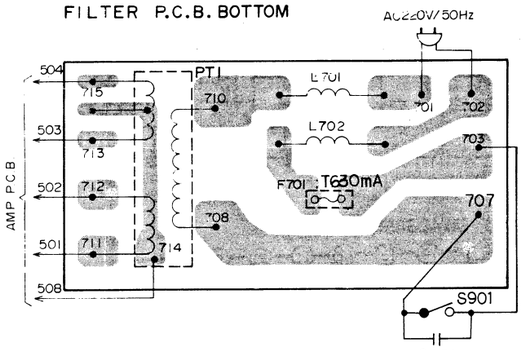


UP DOWN P.C.B. Bottom

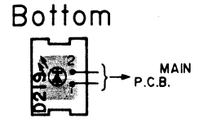
MAIN P.C.B. Bottom



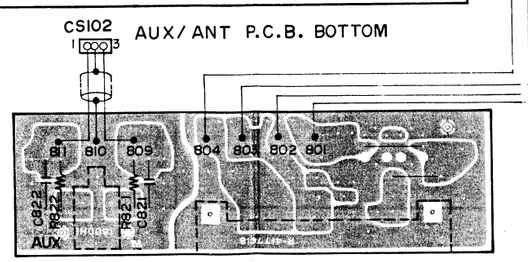
FILTER P.C.B. BOTTOM



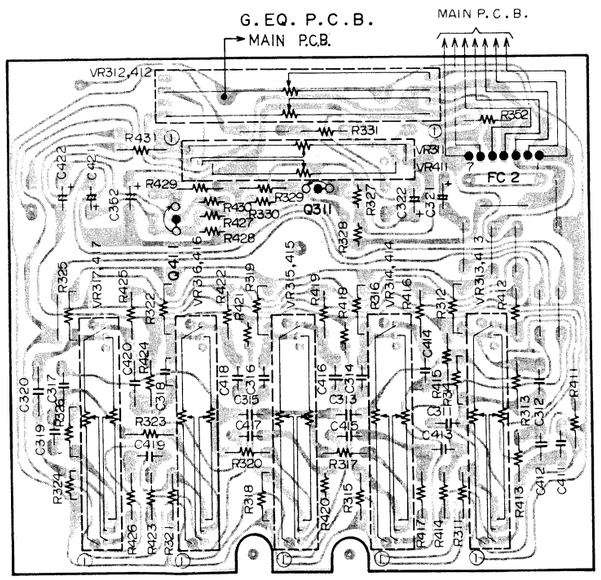
REC IND. P.C.B.. Bottom

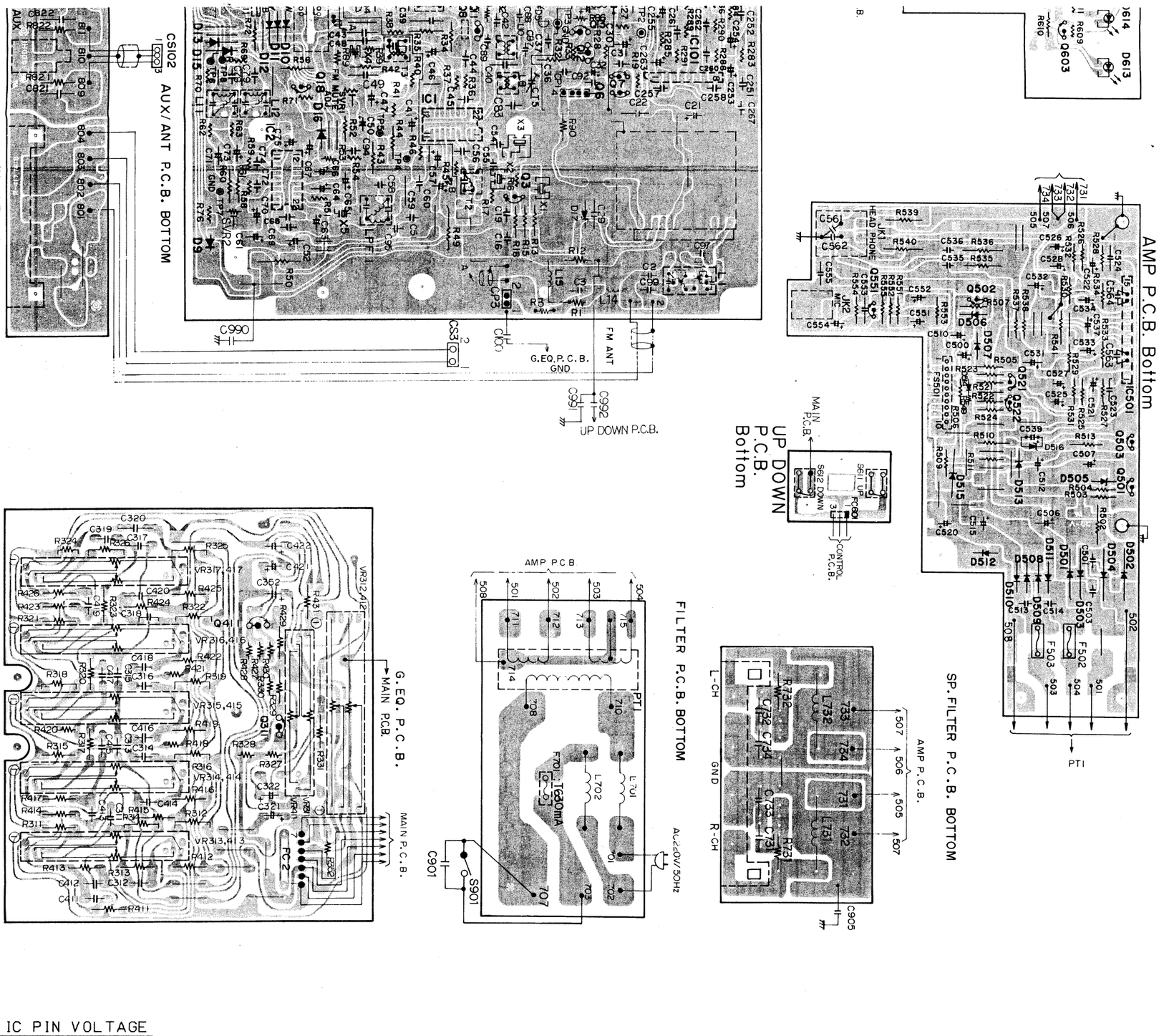


AUX/ANT P.C.B. BOTTOM



G. EQ. P. C. B.





IC PIN VOLTAGE

IC No.	PARTS NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	CONDITION
IC1	LA1265T	2.3	2.3	2.3	0	12.7	12.7	12.7	4.9	3.4	3.1	1.7	1.5	0.5	0.5	2.3	1.5	0	0	0.2	3.9	3.9	2.8																					FM
		1.1	1.1	1.1	0	12.6	12.6	12.6	4.9	3.6	3.0	1.7	1.6	0	0	1.1	1.5	12.7	2.0	2.0	3.7	3.7	1.6																					MW
IC2	LA3401	3.3	3.3	3.3	3.3	5.9	3.3	3.3	5.9	9.3/3.6	0	0/3.6	0	3.4	5.0	0.3/3.6	1.7/2.8	2.9	2.7	2.8	2.8	3.4	12.7																					FM (MONO/STEREO)
		3.2	3.2	3.3	3.2	5.8	3.2	3.2	5.8	3.2	8.1	0	0	3.5	0	0	2.9	9.8	5.2	3.9	7.8	1.8	12.5																					MW
IC101	LA3161	1.3	0.8	2.9	13.5	0	2.8	0.8	1.3																																			——
IC201	LA3161	1.3	0.8	3.6	10.1	0	3.6	0.8	1.3																																			——
IC202	M74LS05P	0.4	0.2	4.9	0.2	4.9	0.2	0	0	0.3	0	0.3	0.4	0.4	4.9																													NORMAL
		0.4	4.5	4.9	0.2	4.9	0.2	0	0.2	4.2	0.2	4.2	4.5	0.4	4.9																													CROM
IC203	M51544L	1.2	0	5.7	0	0	11.0	5.7	0	1.2	9.3																																	——
IC204	M74LS05P	0.4	4.1	4.1	0.2	0.3	0.2	0	0	0	0.2	0.3	0.2	4.1	4.9																													REC NORMAL
		0.4	4.1	4.1	0.2	4.9	0.2	0	0	0	0.2	4.9	0.2	4.1	4.9																													REC CROM
		4.5	0.4	0.4	0	0.3	0.2	0	0	0	0.2	0.3	0	0.4	4.9																													HI DUB NORMAL
		4.5	0.4	0.4	0	4.9	0.2	0	0	0	0.2	4.9	0	0.4	4.9																													HI DUB CROM
IC205 IC206	TA7629P	12.8	6.5	0	6.4	6.4	6.5	0	6.5	6.5	6.5	10.4	6.5	6.5	6.9	7.5	9.3																													DOLBY OFF
		13.4	6.8	0	6.7	6.7	6.7	0	6.8	6.7	6.8	0.3	6.8	6.8	7.2	6.8	6.6																													DOLBY ON
IC501	STK4392	13.0	12.7	0	0	26.2	6.0	51.6	0	50.3	6.1	26.6	0	0	12.8	13.1																													——
IC601	TD6104P	5.1	4.5	4.1	0	3.7	3.7	2.2																																				FM
IC602	TA9147BP	0	2.1	1.8	5.3	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.1	5.1	1.2	5.1	1.2	1.2	0	2.3	5.0	5.2	5.2	5.2	5.2	FM
		0	2.1	1.9	0	5.6	0	4.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.1	5.1	0.8	5.1	1.1	1.2	0	5.0	0	2.2	5.2	5.2	5.2	MW
IC603	TD6301AP	5.1	0	0	0	3.7	0.8	0.8	1.8	0.8	0.8	1.8	0.8	0.8	0	1.8	0.8	0.8	1.9	0.8	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	5.1															MW (522KHZ)
		5.1	0	0	0	3.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.9	0	1.7	1.7	1.8	0.8	0.8	0.8	0.8	0.8	1.8	0.8	0.8	1.7	0.8	5.1															FM (87.5MHZ)

UNIT : (V)

TR PIN VOLTAGE

TRNo.	PARTS NAME	B (D)	C (S)	E (G)	CONDITION
Q3	2SC2839	2.3	12.2	1.6	FM
Q6	2SC536	0.7	2.9	0	FM
Q7	2SC536	1.2	2.9	0.7	FM
Q8	2SK315	7.2	0	0	MW
Q10	2SC536	0.7	0	0	MW
Q13	2SC536	1.2	6.7	0	MW
Q18	2SC536	0.7	0	0	FM
		0	2.7	0	MW
Q103 Q104	2SC536	10.4	14.1	9.8	——
Q201 Q202	2SC536	0.7	0	0	NORMAL SPEED
		0.4	0.2	0	HIGH SPEED
Q203 Q204	2SC536	0	0.1	0	PLAY (NORMAL)
		4.9	4.5	4.5	PLAY (CROM)
		0.9	0.1	0.2	HI SPEED DUB.
Q207 Q208	2SC536	1.5	7.1	1.0	——
Q205 Q206	2SC536	0	0	0	PLAY
		0.8	0.1	0	REC

TRNo.	PARTS NAME	B (D)	C (S)	E (G)	CONDITION
Q209	2SA1318	14.7	0	14.9	PLAY
		14.0	14.7	14.8	REC
Q210	2SC3400	0	14.7	0	MOTOR ON
		0.3	14.7	0	MOTOR OFF
Q211 Q212	2SC536	0	0	0	PLAY
		0.8	0.1	0	REC
Q213	DTC124	4.0	0	0	NORMAL SPEED
		0.3	12.0	0	HIGH SPEED
Q214	2SA950	14.5	0	14.1	MOTOR ON
		13.5	14.2	14.2	MOTOR OFF
Q215	2SA1318	12.7	13.3	13.4	MOTOR ON
		1.3	1.8	1.8	MOTOR OFF
Q216	2SA1318	12.6	13.2	13.3	MOTOR ON
		0	0	0	MOTOR OFF
Q217	2SC536	0.8	0.1	0	PLAY
		0.7	0.1	0	REC

TRNo.	PARTS NAME	B (D)	C (S)	E (G)	CONDITION
Q218	2SC2240	0.8	0.1	0	BEAT CUT 1
		0.4	0	0	BEAT CUT 2
Q219	2SC2120	0.6	5.6	0.3	REC (NORMAL)
		0.6	7.8	0.4	REC (CROM)
Q311 Q411	2SC536	0.8	4.2	0.2	——
Q501	2SD1406	15.4	29.0	14.9	——
Q502	2SC536	0.7	0.2	0	——
Q503	2SD1406	6.3	13.3	5.7	——
Q521 Q522	2SC536	0.2	0	0	——

TRNo.	PARTS NAME	B (D)	C (S)	E (G)	CONDITION
Q551	2SC536	0.7	3.8	0.1	——
Q601	2SC2839	0.8	4.1	0	FM
Q602	2SC536	0.7	0.1	0	FM
		0	1.8	0	MW
Q603	2SA1018	5.2	0	5.1	FM
		5.1	0	5.1	MW
Q604	2SC536	0.7	0	0	FM (0.05MHZ)
		0	3.7	0	MW (0.00MHZ)

UNIT : (V)

IC PIN VOLTAGE

UNIT : (V)

IC No.	PARTS NAME	CONDITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
IC1	LA1265T	FM	2.3	2.3	2.3	0	2.7	2.7	2.7	4.9	3.4	3.1	1.7	1.5	0.5	0.5	2.3	1.5	0	0	0.2	3.9	3.9	2.8																				
		MW	1.1	1.1	1.1	0	2.6	2.6	2.6	4.9	3.6	3.0	1.7	1.6	0	0	1.1	1.5	2.7	2.0	2.0	3.7	3.7	1.6																				
IC2	LA3401	FM (MONO/STEREO)	3.3	3.3	3.3	3.3	3.5	3.3	3.3	5.9	3.3	0	2.4	0	3	4.5	0	0.3	1.7	2.9	2.7	2.8	2.8	3.4	2.7																				
		MW	3.2	3.2	3.3	3.2	5.8	3.2	3.2	5.8	3.2	8.1	0	0	3.5	0	0	2.9	9.8	5.2	3.9	7.8	1.8	2.5																				
IC101	LA3161	—	1.3	0.8	2.9	3.5	0	2.8	0.8	1.3																																		
IC201	LA3161	—	1.3	0.8	3.6	0.1	0	3.6	0.8	1.3																																		
IC202	M74LS05P	NORMAL	0.4	0.2	4.9	0.2	4.9	0.2	0	0	0.3	0	0.3	0.4	0.4	4.9																												
		CROM	0.4	4.5	4.9	0.2	4.9	0.2	0	0.2	4.2	0.2	4.2	4.5	0.4	4.9																												
IC203	M51544L	—	1.2	0	5.7	0	11.0	5.7	0	1.2	9.3																																	
IC204	M74LS05P	REC NORMAL	0.4	4.1	4.1	0.2	0.3	0.2	0	0	0.2	0.3	0.2	4.1	4.9																												
		REC CROM	0.4	4.1	4.1	0.2	4.9	0.2	0	0	0.2	4.9	0.2	4.1	4.9																												
		HI DUB NORMAL	4.5	0.4	0.4	0	0.3	0.2	0	0	0.2	0.3	0	4.9																												
		HI DUB CROM	4.5	0.4	0.4	0	4.9	0.2	0	0	0.2	4.9	0	4.9																												
IC205	TA7629P	DOLBY OFF	12.8	6.5	0	6.4	6.4	6.5	0	6.5	6.5	10.4	6.5	6.5	6.9	7.5	9.3																										
IC206		DOLBY ON	13.4	6.8	0	6.7	6.7	6.7	0	6.8	6.7	6.8	6.7	6.8	6.8	7.2	6.8	6.6																								
IC501	STK4392	—	13.0	12.7	0	0	26.2	6.0	5.1	5.6	0	50.3	6.1	26.6	0	0	12.8	13.1																								
IC601	TD6104P	—	5.1	4.5	4.1	0	3.7	3.7	2.2																																
IC602	TA9147BP	FM	0	2.1	1.8	5.3	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MW	0	2.1	1.9	0	5.6	0	4.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IC603	TD6301AP	(522KHZ)	5.1	0	0	0	3.7	0.8	0.8	1.8	0.8	0.8	1.8	0.8	0.8	1.9	0.8	0.8	1.8	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8
		(87.5MHZ)	5.1	0	0	0	3.7	0.8	0.8	1.8	0.8	0.8	1.8	0.8	0.8	1.9	0.8	0.8	1.8	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8	0.8	1.9	0.8

UNIT : (V)

TRNo.	PARTS NAME	CONDITION	B (D)	C (S)	E (G)
Q551	2SC536	—	0.7	3.8	0.1
Q601	2SC2839	—	0.8	4.1	0
Q602	2SC536	FM	0.7	0.1	0
		MW	0	1.8	0
Q603	2SA1018	FM	5.2	0	5.1
		MW	5.1	0	5.1
Q604	2SC536	FM (0.05MHZ)	0.7	0	0
		MW (0.00MHZ)	0	3.7	0

TRNo.	PARTS NAME	CONDITION	B (D)	C (S)	E (G)
Q3	2SC2839	FM	0.8	0.1	0
Q6	2SC536	FM	0.4	0	0
Q7	2SC536	FM	0.6	5.6	0.3
Q8	2SK315	MW	0.6	7.8	0.4
Q10	2SC536	MW	0.8	4.2	0.2
Q13	2SC536	MW	15.4	29.0	14.9
Q18	2SC536	FM	0.7	0	0
		MW	6.3	13.3	5.7
Q103 Q104	2SC536	—	0.2	0	0
Q201	2SC536	NORMAL SPEED	0.7	0	0
Q202		HIGH SPEED	0.4	0.2	0
Q203	2SC536	PLAY (NORMAL)	0	0.1	0
Q204		PLAY (CROM)	4.9	4.5	4.5
		HI SPEED DUB.	0.9	0.1	0.2
Q207 Q208	2SC536	—	1.5	7.1	1.0
Q205 Q206	2SC536	PLAY	0	0	0
		REC	0.8	0.1	0

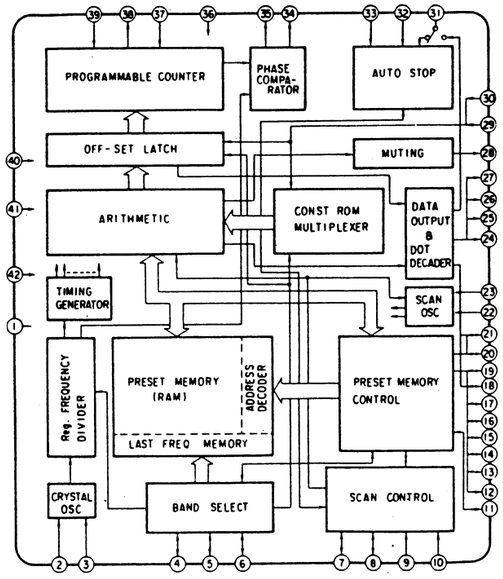
TRNo.	PARTS NAME	CONDITION	B (D)	C (S)	E (G)
Q209	2SA1318	PLAY	14.7	0	14.9
		REC	14.0	14.7	14.8
Q210	2SC3400	MOTOR ON	0	14.7	0
		MOTOR OFF	0.3	14.7	0
Q211 Q212	2SC536	PLAY	0	0	0
		REC	0.8	0.1	0
Q213	DTC124	NORMAL SPEED	4.0	0	0
		HIGH SPEED	0.3	12.0	0
Q214	2SA950	MOTOR ON	14.5	0	14.1
		MOTOR OFF	13.5	14.2	14.2
Q215	2SA1318	MOTOR ON	12.7	13.3	13.4
		MOTOR OFF	1.3	1.8	1.8
Q216	2SA1318	MOTOR ON	12.6	13.2	13.3
		MOTOR OFF	0	0	0
Q217	2SC536	PLAY	0.8	0.1	0
		REC	0.7	0.1	0

TR PIN VOLTAGE

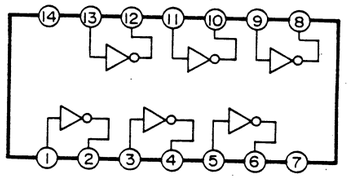
TRNo.	PARTS NAME	CONDITION	B (D)	C (S)	E (G)
Q218	2SC536	FM	0.7	0.1	0.1
		MW	0.6	0.1	0.1
Q219	2SC536	FM	0.7	0.1	0
		MW	0	1.8	0
Q311 Q411	2SC536	FM	5.2	0	5.1
		MW	5.1	0	5.1
Q501	2SD1406	FM	0.7	0	0
		MW	0	3.7	0
Q502 Q503	2SD1406	—	0.2	0	0
Q521 Q522	2SC536	—	0.2	0	0

IC BLOCK DIAGRAM

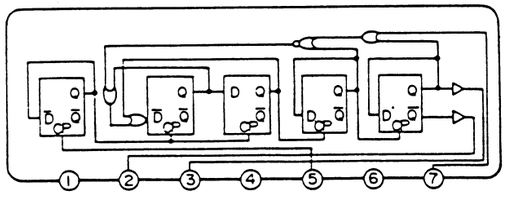
TC9147BP



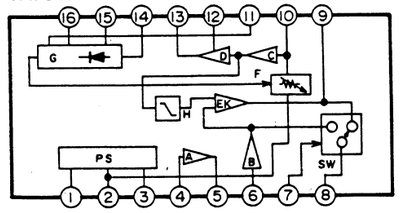
M74LS05N



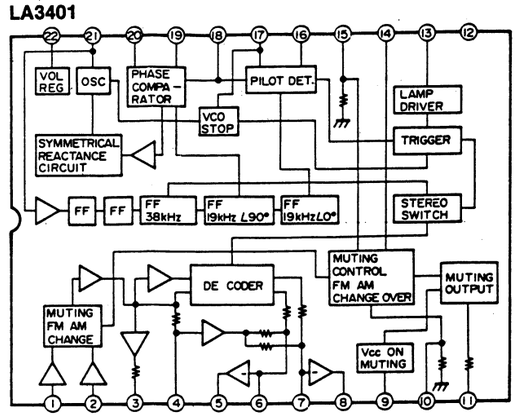
TD6104P



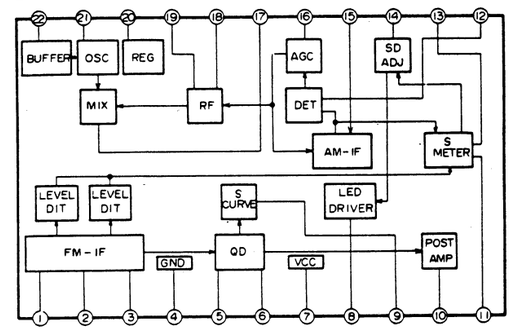
TA7629P



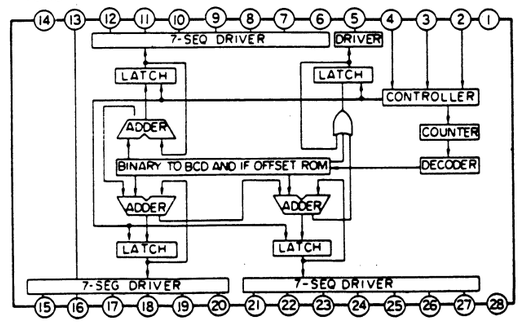
LA3401



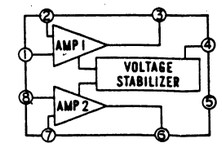
LA1265T



TD6301AP



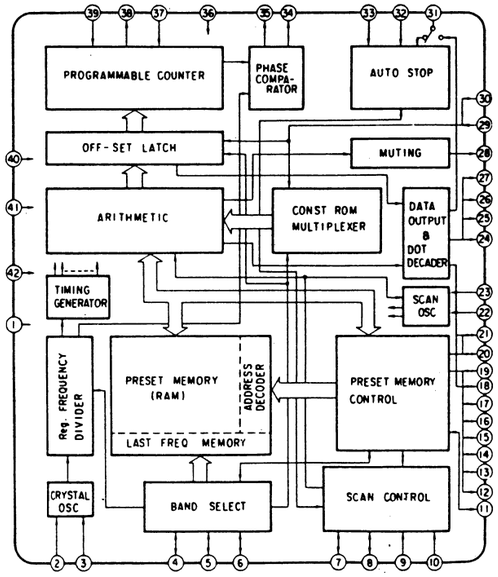
LA3161



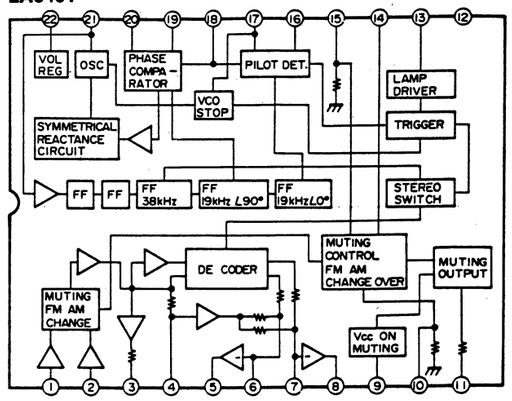
Positions Reference Numéro de	
IC 1	
IC 2	
IC 101, 20	
IC 202, 20	
IC 203	
IC 204, 20	
IC 501	
IC 601	
IC 602	
IC 603	
Q 3, 601	
Q 6,7,10..	103, 104 201...2C 411
Q 8	
Q 18,205,2	207,208, 212,502, 522,602
Q 209,215,	
Q 210	
Q 213	
Q 214	
Q 218	
Q 219	
Q 501, 503	
Q 551	
D 4, 5	
D 7,9...1	201,202 211...2 514,601 603...6 617...6
D 17	
D 204,205	207...2
D 217,218	
D 219	
D 501...5	
D 505	
D 506	
D 508...5	
D 513	
D 515	
D 516	

IC BLOCK DIAGRAM

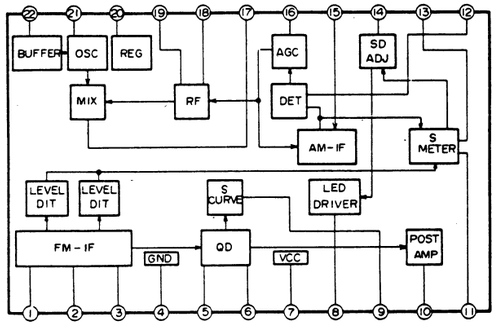
TC9147BP



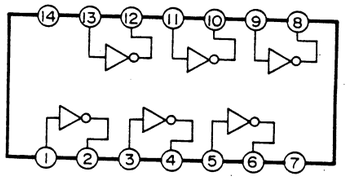
LA3401



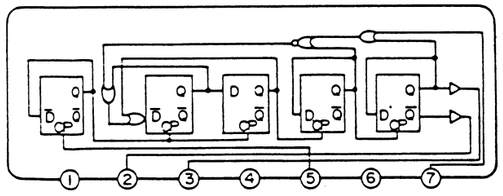
LA1265T



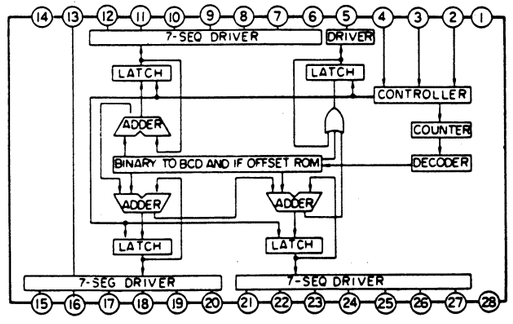
M74LS05N



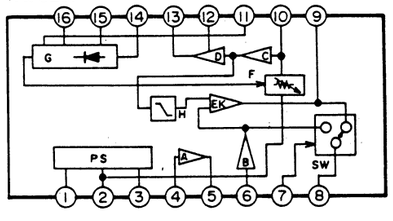
TD6104P



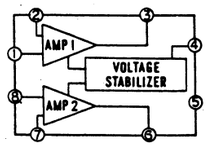
TD6301AP



TA7629P



LA3161



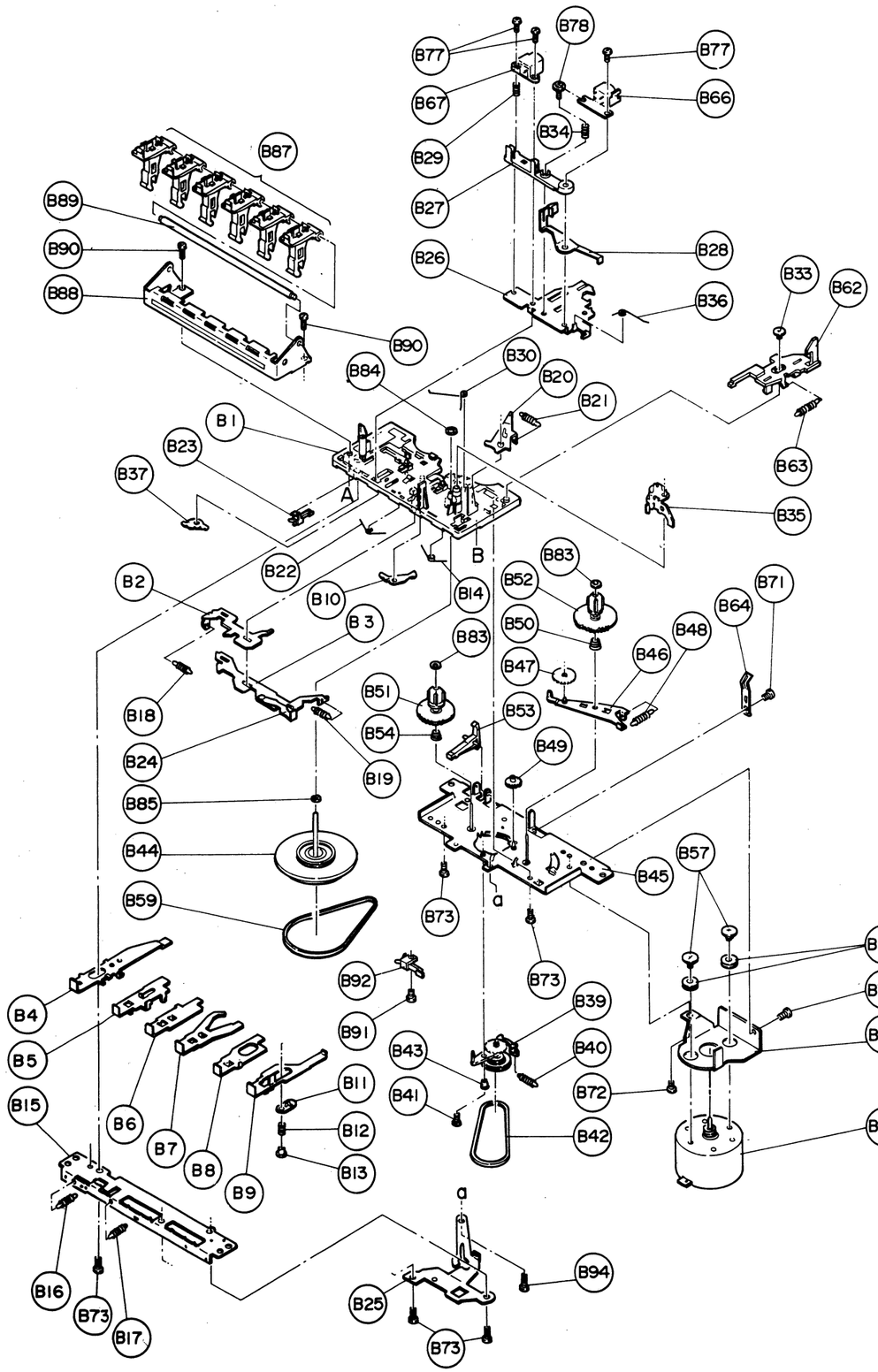
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
IC 1	LA 1265 T	3768 98 51
IC 2	LA 3401	3763 23 33
IC 101, 201	LA 3161	3768 98 29
IC 202, 206	M 74 LS 05 P	3771 48 03
IC 203	M 51544 L	3763 23 19
IC 204, 205	TA 7629 P	3763 22 84
IC 501	STK 4392	3763 23 20
IC 601	TD 6104 P	3763 14 68
IC 602	TC 9147 BP	3763 23 17
IC 603	TD 6301	3763 23 16
Q 3, 601	2 SC 2839 E	3614 43 06
Q 6,7,10...13, 103, 104, 201...204,311, 411	2 SC 536 G	3614 37 32
Q 8	2 SK 332 E	3614 48 28
Q 18,205,206,217, 207,208,211, 212,502,521, 522,602,604	JC 501 R	3614 49 29
Q 209,215,216,603	JA 101 R	3614 49 30
Q 210	2 SC 3400	3614 49 86
Q 213	DTC 124 ES	3614 52 34
Q 214	2 SA 950 Y	3614 52 07
Q 218	2 SC 2240 GR-T	3614 55 16
Q 219	2 SC 2120 GY-T	3614 55 17
Q 501, 503	2 SD 1406 GR	3614 49 85
Q 551	2 SC 536 G SP	3614 37 40
D 4, 5	SVC 321-C 2	3651 15 08
D 7,9...13,15,16, 201,202,206, 211...215,507, 514,601, 603...605, 617...621	GMA 01	3656 27 70
D 17	GZA 8,2 Y	3656 29 08
D 204,205, 207...210,220	1 SS 176	3656 30 34
D 217,218,602	DS 135 D	3656 21 75
D 219	SLP 173 B-01 (LED)	3681 16 55
D 501...504	2 SV 20	3657 13 34
D 505	GZA 15 Z	3656 30 14
D 506	GZA 7,5 X	3656 29 02
D 508...512	DS 135 D-KB1	3656 28 31
D 513	GZA 6,2 Z	3656 30 35
D 515	GZA 18 Y	3656 27 69
D 516	GZA 6,8 Y	3653 01 99
D 606...611,614	SLP 151 B (LED)	3681 15 79
D 612,613	SLP 251 B	3681 15 80
D 615	SL 1043-17 T (Display)	3686 10 43
D 616	SLP 136 C-50	3681 17 12
X 1,3	Ceramic Filter	4551 91 35
X 2	Ceramic Filter	4551 92 47
X 4	Ceramic Filter	4551 92 46
X 5	Ceramic Filter	4551 92 40
X 601	Quarz 7,200 MHz	4421 24 05
R 49, 199	68 kOhm 1 W	3141 39 12
R 50	120 Ohm 1 W	3151 81 61
R 270	180 Ohm 1 W	3151 82 60
R 271	220 Ohm 1 W	3142 09 07
R 504	10 Ohm 0,5 W	3151 82 70
R 509, 510	2,2 Ohm 0,5 W	3151 82 71
R 535, 536	10 Ohm 1 W	3142 09 06
R 539, 540	270 Ohm 1 W	3151 82 74
R 541	100 Ohm 0,5 W	3151 82 73
VR 1,101...104	47 kOhm	3111 86 51
VR 2	220 kOhm	3111 86 53
VR 105, 106	22 kOhm	3111 86 52
VR 107, 108	100 kOhm	3111 86 58
VR 109, 111	1 kOhm	3111 87 95
VR 110, 112	2,2 kOhm	3111 87 96
VR 311, 411	BALANCE	3118 90 71
VR 312, 412	VOLUME	3118 90 73
VR 313...317, 413...417	GRAPHIC EQUALIZER	3118 90 78
S 1	AM/FM	4112 96 46
S 101	Record/Playback	4112 96 43
S 102, 105	TAPE A/B	4112 96 44
S 103, 104	TAPE SELECT	4112 96 45
S 106	STEREO/MONO	4112 95 05
S 601...607, 611, 612	P1...P6, MEMORY, TUNING	4112 95 26
S 608, 609	P1-6/P7-12, BEAT CUT	4112 96 41
	Hebel/Lever/Levier S1,102...106	8318 45 74

Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
⊣⊢		
C 21,52,199,200	0,1 uF 50 V miniatur	3422 85 55
C 30,65...67,90, 193,194,209,210, 244,331,332, 609,614...616	1 uF 50 V miniatur	3422 86 94
C 32,64,91,618	0,22 uF 50 V	3422 08 65
C 33,191,247	47 uF 16 V miniatur	3422 85 42
C 41,61,70,71,73, 163, 164, 181...184,201, 202,205...208, 211, 212, 227...230,255, 256,321,322,335, 336,421,422, 500,512,552	10 uF 16 V miniatur	3422 85 30
C 46,50,253,254, 263,264	4,7 uF 25 V miniatur	3422 85 32
C 47,57,83	3,3 uF 50 V miniatur	3422 85 48
C 60,63,189,190, 192,237,265, 337,551	100 uF 16 V	3422 28 29
C 75	22 uF 16 V miniatur	3422 85 46
C 82	2200 uF 6,3 V	3422 99 19
C 155,156,173, 174	4,7 uF 50 V miniatur	3422 85 22
C 161,162,177, 178,195,196, 248,439,539	220 uF 6,3 V miniatur	3422 85 27
C 197, 198	0,33 uF 50 V	3422 87 07
C 238,249,521, 522	0,47 uF 50 V miniatur	3422 85 56
C 223,224,554	2,2 uF 50 V miniatur	3422 85 09
C 352	100 uF 25 V miniatur	3422 86 34
C 506	2200 uF 63 V	3422 99 18
C 507	330 uF 25 V	3422 37 63
C 510	33 uF 10 V miniatur	3422 85 37
C 520	1000 uF 50 V	3422 86 22
C 525, 526	220 uF 63 V miniatur	3422 86 89
C 527, 528	10 uF 50 V	3422 86 19
C 533	47 uF 35 V miniatur	3422 86 18
C 531,532,515	1000 uF 35 V miniatur	3422 86 32
C 537	220 uF 63 V miniatur	3422 86 89
C 603	330 uF 10 V	3422 24 63
C 608, 610	100 uF 6,3 V miniatur	3422 85 26
CT 4, 5	Trimmer	3412 90 62
CT 6, 7	Trimmer 30 pF	3412 90 32

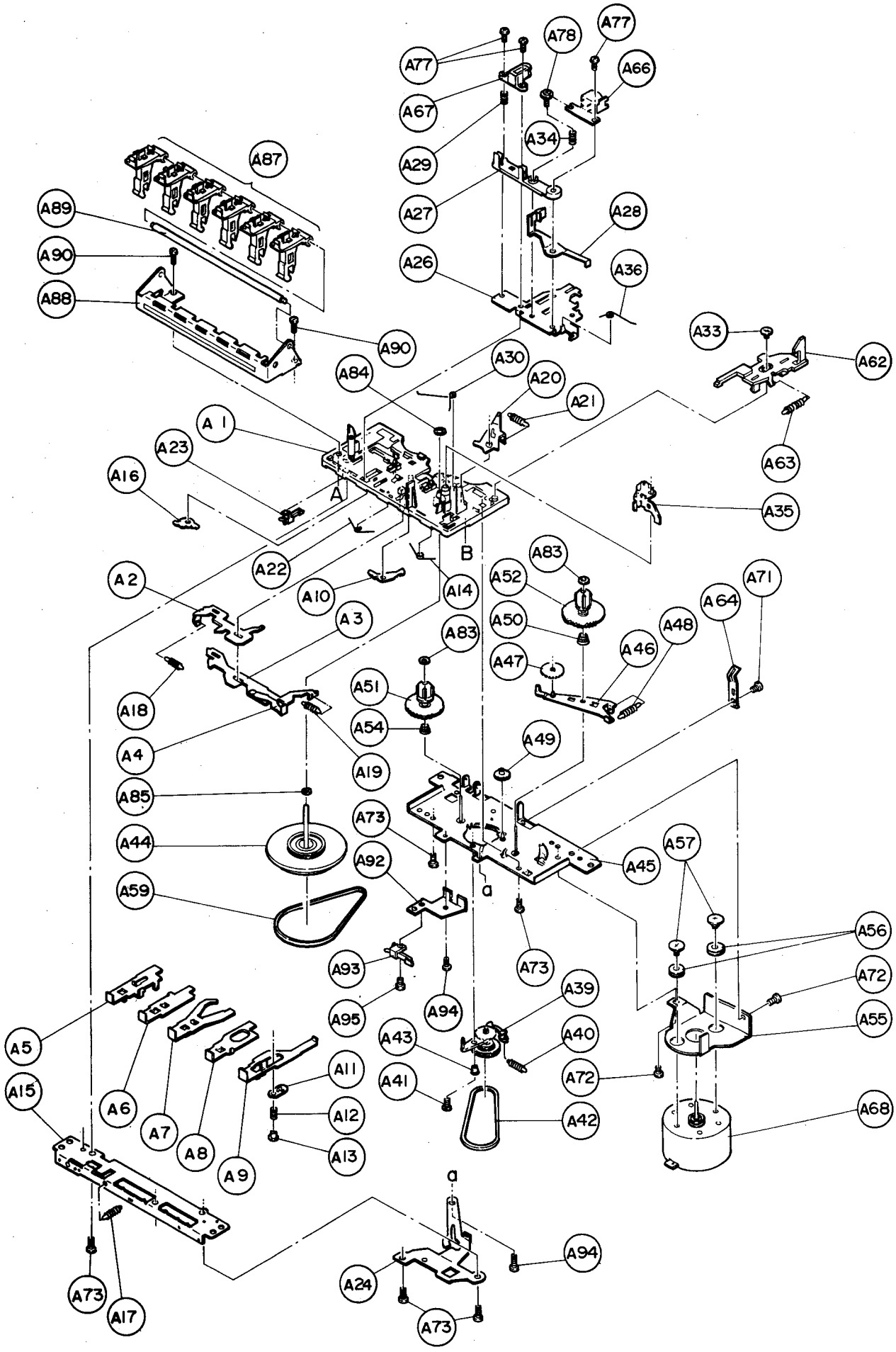
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
⌇		
L 1	Filter	4552 94 59
L 7	Ant. MW	4543 21 42
L 8	Oscillator MW	4543 21 43
L 9	Ant. LW	4543 21 44
L 10	Oscillator LW	4543 21 45
L 11, 12	Filter	4551 92 42
L 14	22 uH	4543 21 48
L 15	1,5 mH	4543 21 49
L 201, 202	10 mH	4543 20 08
L 203, 204		4543 20 11
L 205, 206	10 mH	4543 21 41
L 207	Oscillator	4543 20 14
L 208, 209	5,6 uH	4543 21 46
L 210, 211	27 uH	4543 21 47
L 701, 702	40 uH	4543 16 85
L 731, 732		4543 99 92
T 2	Filter FM	4551 92 55
T 3	Filter AM	4551 92 56
LPF 1	Filter	4551 92 25
⊃		
JK 1	PHONES	4144 81 88
JK 2	MICROPHONE	4144 81 57
	AUX	4144 81 63
	SPEAKERS	4144 09 30
	ANTENNA	4144 81 87
	FM-Modul FM Module Module FM	6913 31 77

	≈		mV ≈	FM MHz AM kHz		
1. AM	450 kHz 30 % mod. 1 kHz via AM Ant.	Tp 6		522 kHz	T 3	Max.
2. MW			TP 9, ⊥	522 kHz	L 8	1,2 V DC.
				1611 kHz	CT 5	7,8 V DC.
	603 kHz		SPEAKERS	603 kHz	L 7	Max
	1404 kHz			1404 kHz	CT 4	
	2. – wiederholen répeter – repeat –					
3. LW			TP 9, ⊥	153 kHz	L 10	1,2 V DC.
				360 kHz	CT 7	7,8 V DC.
	155 kHz		SPEAKERS	155 kHz	L 9	Max.
	355 kHz			355 kHz	CT 6	
	3. – wiederholen répeter – repeat –					
4. FM	98,0 MHz 1 mV Δ = 40 kHz mod. = 1 kHz via FM ANT.		TP 4 – TP 5	98,0 MHz	T 2	< 20 mV
		Distortion Meter SPEAKERS			IFT FM Modul	k < 0,3 %
	4. – wiederholen répeter – repeat –					
5. Muting	98,0 MHz 10 μV		TP 6, ⊥	98,0 MHz	SVR 1	TUNING

	≈	mV ≈	8888 f			
TP 201 ⌒ TP 202			SPEAKERS	3 kHz Test tape	SVR 110 (A) SVR 112 (B)	5970 ... 6030 Hz
TP 201 ✕ TP 202				START ▶	SVR 109 (A) SVR 111 (B)	2985 ... 3015 Hz
		SPEAKERS L, R		10 kHz Test tape START ▶	↓ (A) (B)	Max. L = Max. R
			TP 101	Cassette B RECORD ●	L 207	102,5 kHz ± 0,1 kHz
		CP 102 Pin 3 (L) Pin 1 (R)		DOLBY Test tape Cassette A START ▶	SVR 101 (L) SVR 102 (R)	580 mV
				DOLBY Test tape Cassette B START ▶	SVR 103 (L) SVR 104 (R)	
		TP 101 Pin 3 (L) Pin 1 (R)		Normal Cassette B RECORD ●	SVR 107 (L) SVR 108 (R)	4,5 mV
	400 Hz, 400 mV via AUX	CP 102 Pin 3 (L) Pin 1 (R)		RECORD ●	≈	245 mV
				RECORD ●	SVR 105 (L) SVR 106 (R)	
				START ▶	→	245 mV



Positions-Nr. Reference-No. Numéro de position	Bestell-Nr. Part-No. Numéro de commande	Positions-Nr. Reference-No. Numéro de position	Bestell-Nr. Part-No. Numéro de commande
Cassette B (Cassette A)			
1	8681 35 34	51	6253 41 65
2	8318 49 20	52	6253 41 69
3	8318 49 73	53	8681 23 78
4	8318 49 22 (8318 49 75)	54	7358 22 32
5	8318 50 14	55	8318 49 36
6	8318 49 24	56	6552 23 41
7	8318 49 25	57	7858 01 63
8	8318 49 26	59	7618 42 40
9	8318 49 27	62	8681 35 39
10	8318 49 28	63	7358 22 33
11	8681 35 35	64	7358 22 34
12	7358 22 17	66	4335 92 69
13	8681 35 36	67	4337 91 49 (4337 91 69)
14	7358 22 18		
15	8318 49 74	68	4432 92 61
16	7358 22 19 (8681 35 43)	68 A	7548 42 02
		83	7726 05 46
17	7358 22 20	84	7726 05 47
18	7358 22 24	85	7726 05 48
19	7358 22 21	87	8681 35 40
20	8318 49 30	88	8318 49 37
21	7358 22 22	89	7578 05 58
22	7358 22 23	92	4188 04 52 (8318 49 76)
23	4188 04 51		
24	8318 49 75 (8318 49 33)	93	(4188 04 52)
25	8318 49 33		
26	8318 49 31		
27	8681 35 37		
28	8318 50 51		
29	7358 22 25		
30	7358 22 26		
33	7858 01 61		
34	7358 22 27		
35	7358 33 57		
36	7358 22 88 (7358 22 53)		
37	8681 35 43		
39	7424 01 26		
40	7358 22 29		
42	7618 42 19		
43	6568 11 67		
44	7518 40 96		
45	8318 49 40		
46	8318 49 41		
47	7525 10 75		
48	7358 22 30		
49	7525 10 76		
50	7358 22 89 (7358 22 31)		


A87
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